

Kingman County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/26/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 18 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Kingman County economy.¹

These 18 sectors have a total direct output of approximately **\$117.2 million** and support **909 jobs** in Kingman County. Running the model for all 18 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Kingman County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	909.3	18.66%	\$29,617,967	11.68%	\$117,217,187
Indirect Effect	121.4	2.49%	\$7,801,950	3.08%	\$17,563,695
Induced Effect	53.5	1.10%	\$3,171,281	1.25%	\$6,353,184
Total Effect	1084.2	22.24%	\$40,591,198	16.01%	\$141,134,066

As shown in the above table, agriculture, food, and food processing sectors support **1,084 jobs**, or **22.24%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 18 agriculture, food, and food processing sectors is approximately **\$40.6 million**, or **16.01% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelptest.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **532 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Kingman County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	531.7	\$45,217,855
Grain farming	159.2	\$42,259,025
All other crop farming	55.0	\$3,104,241
Animal production, except cattle and poultry and eggs	51.6	\$4,497,294
Support activities for agriculture and forestry	43.9	\$768,836
Wholesale trade	31.0	\$4,304,196
Farm machinery and equipment manufacturing	24.7	\$9,007,524
Real estate	22.2	\$1,950,854
Monetary authorities and depository credit intermediation	11.7	\$2,430,933
Extraction of natural gas and crude petroleum	11.0	\$1,683,391

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$45.2 million** to the Kingman County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	531.7	\$45,217,855
Grain farming	159.2	\$42,259,025
Farm machinery and equipment manufacturing	24.7	\$9,007,524
Oilseed farming	10.2	\$7,744,489
Animal production, except cattle and poultry and eggs	51.6	\$4,497,294
Wholesale trade	31.0	\$4,304,196
All other crop farming	55.0	\$3,104,241
Monetary authorities and depository credit intermediation	11.7	\$2,430,933
Real estate	22.2	\$1,950,854
Extraction of natural gas and crude petroleum	11.0	\$1,683,391

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Kingman County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	10.2	\$7,744,489.19
Grain farming	159.2	\$42,259,025.57
Vegetable and melon farming	1.7	\$240,024.72
Fruit farming	1.1	\$66,088.51
Tree nut farming	0.0	\$9.73
Greenhouse, nursery, and floriculture production	3.6	\$365,316.78
Cotton farming	2.8	\$457,945.79
All other crop farming	55.0	\$3,104,241.37
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	531.7	\$45,217,853.55
Poultry and egg production	2.7	\$1,594,196.80
Animal production, except cattle and poultry and eggs	51.6	\$4,497,293.47
Commercial hunting and trapping	3.9	\$28,116.52
Support activities for agriculture and forestry	43.9	\$768,835.84
Bread and bakery product, except frozen, manufacturing	5.7	\$642,421.60
Frozen cakes and other pastries manufacturing	0.2	\$28,315.96
Farm machinery and equipment manufacturing	24.7	\$9,007,523.54
Veterinary services	6.7	\$653,706.97
Landscape and horticultural services	4.6	\$541,779.64

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Kingman County, the retail sector was omitted.